Fig.1

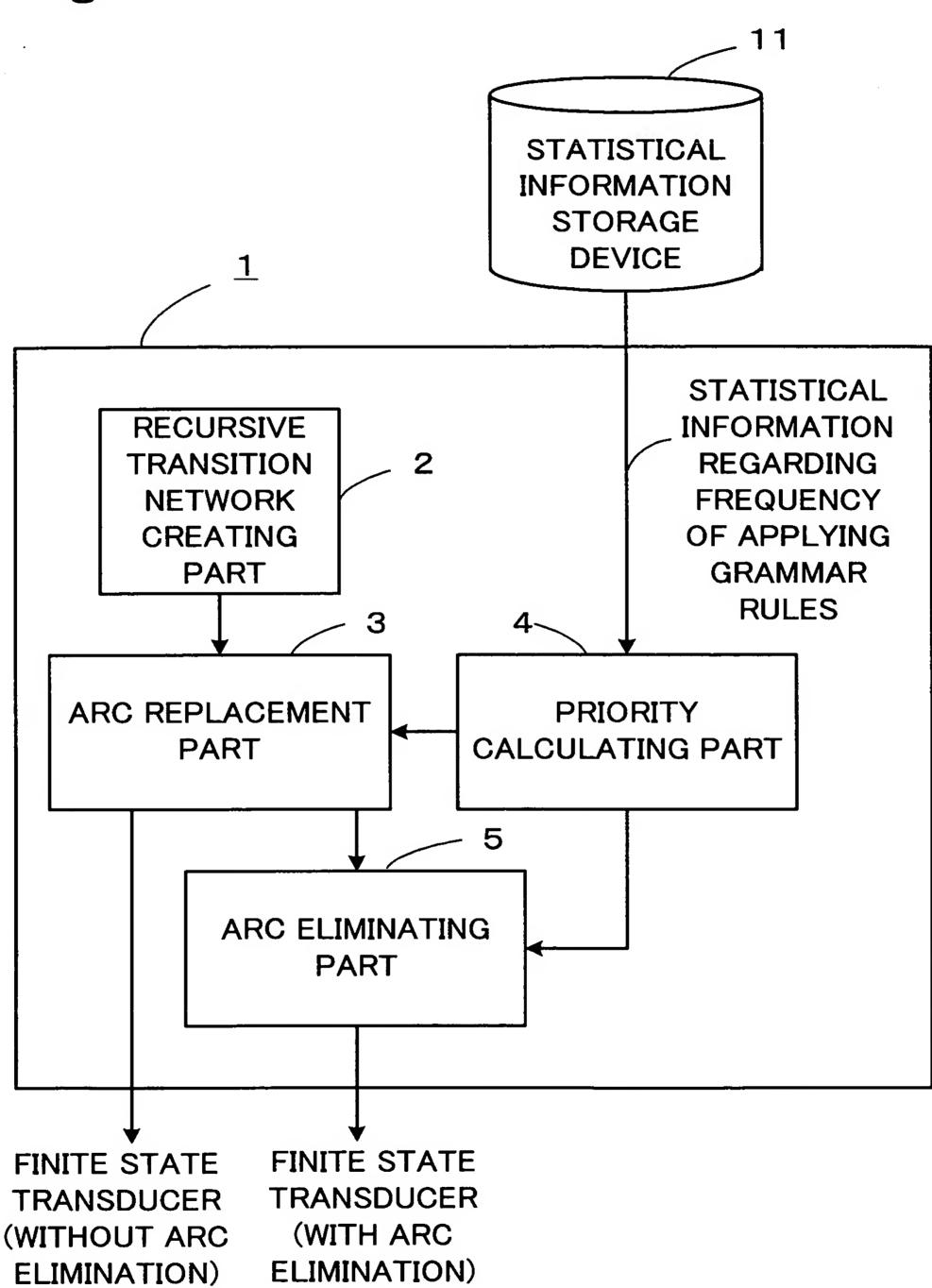


Fig.2

$$X \rightarrow AD$$
 $X \rightarrow BD$ 
 $X \rightarrow CD$ 

Fig.3

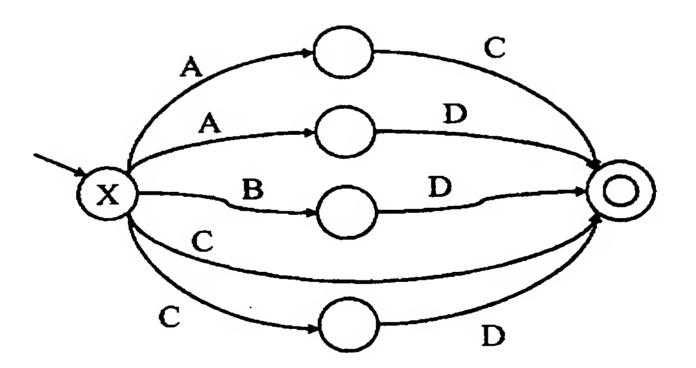


Fig.4

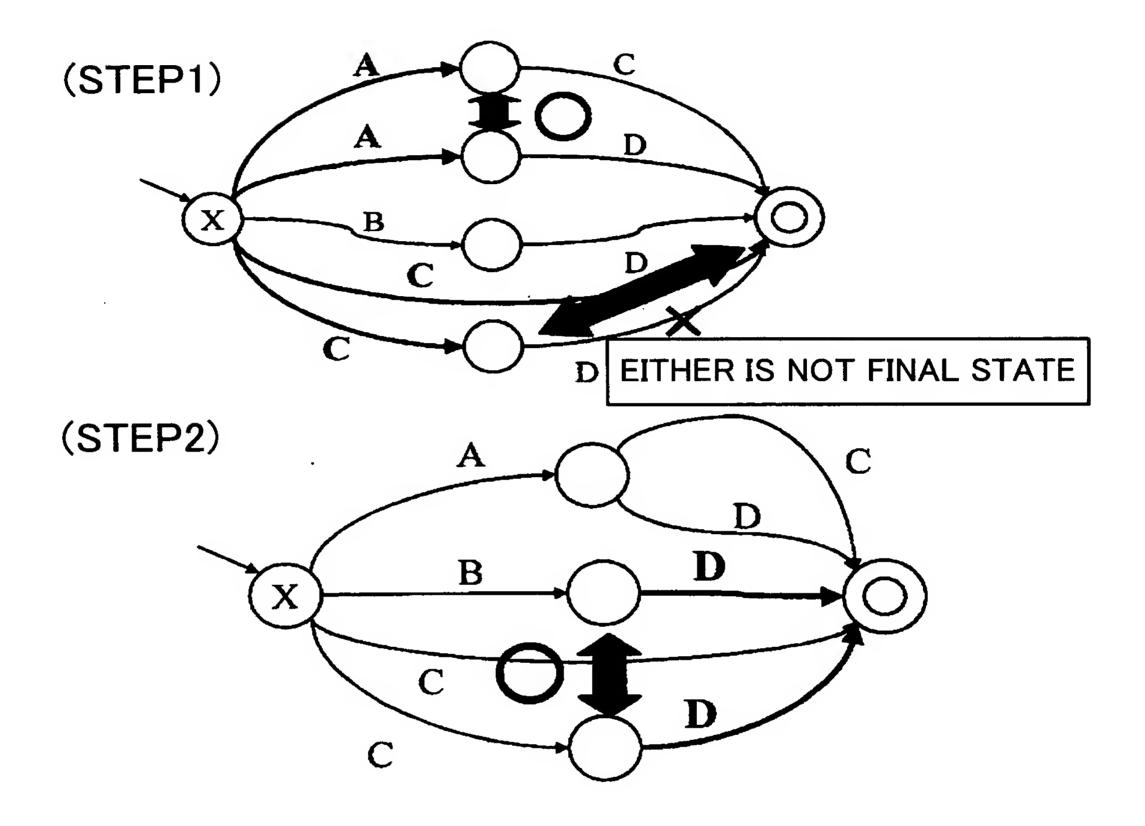
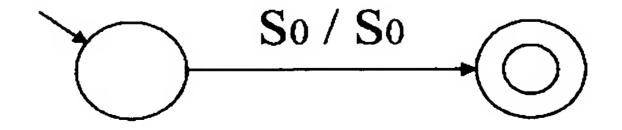
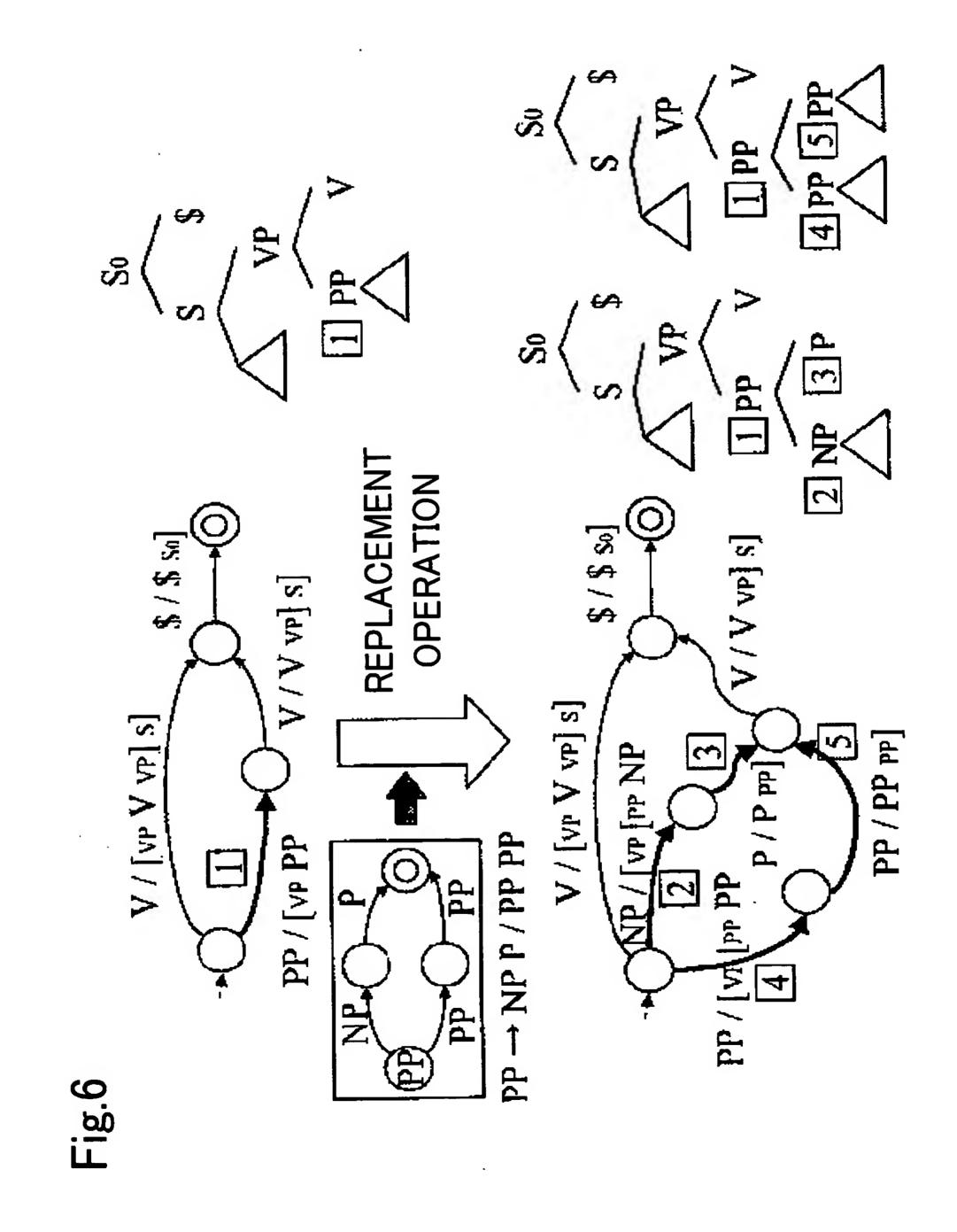


Fig.5







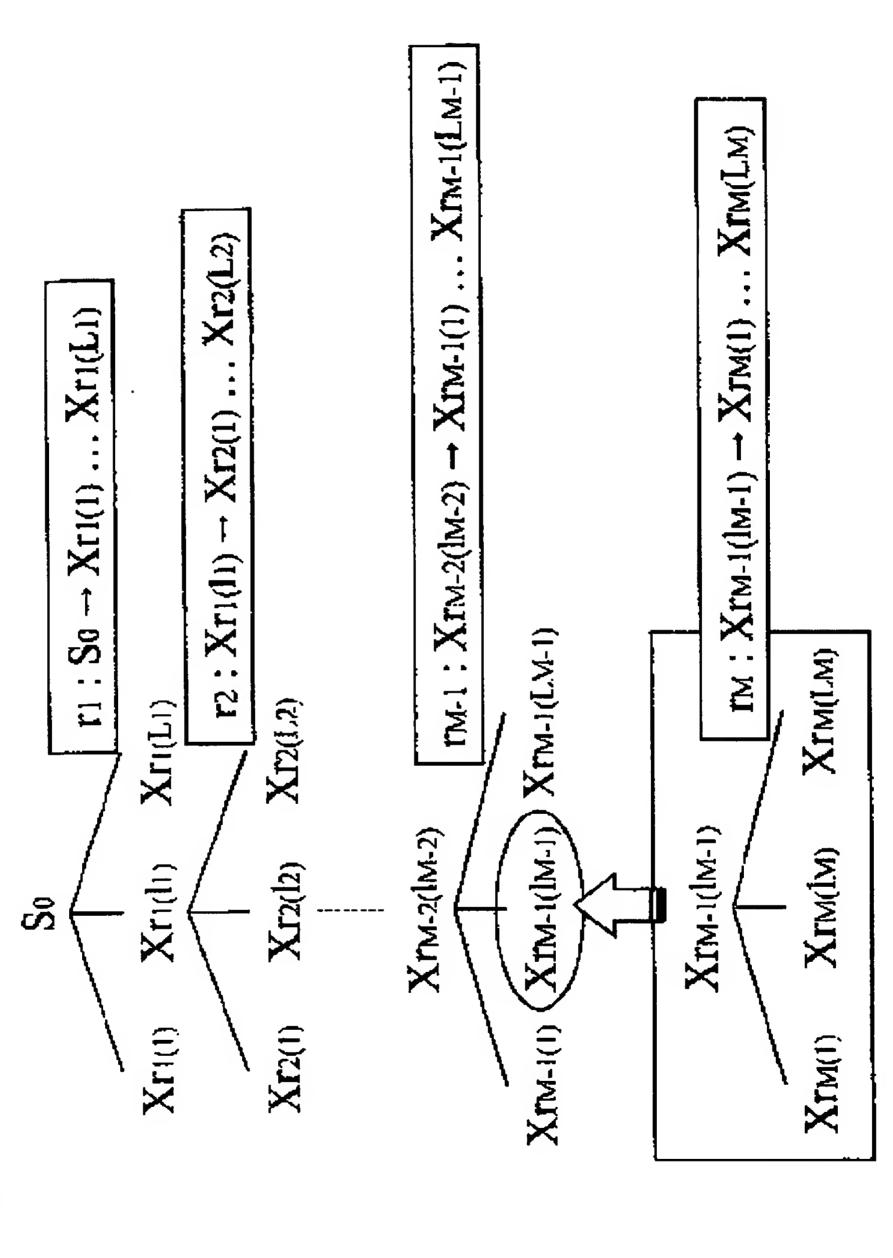


Fig.8

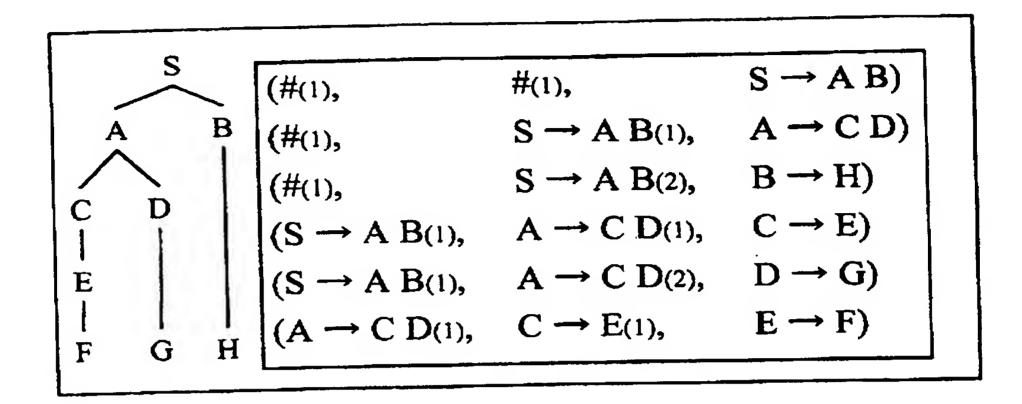
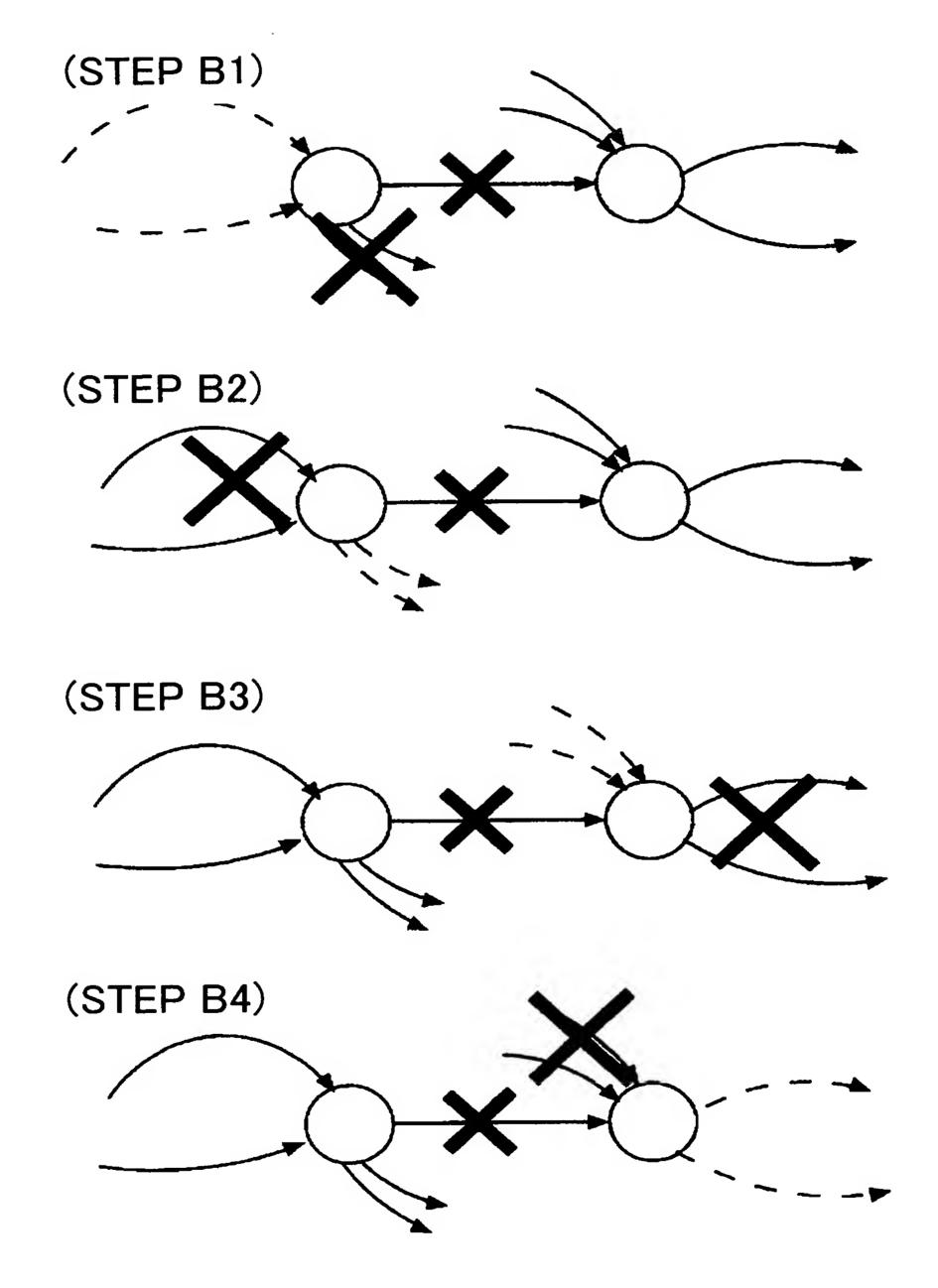


Fig.9



**FIG.10** 

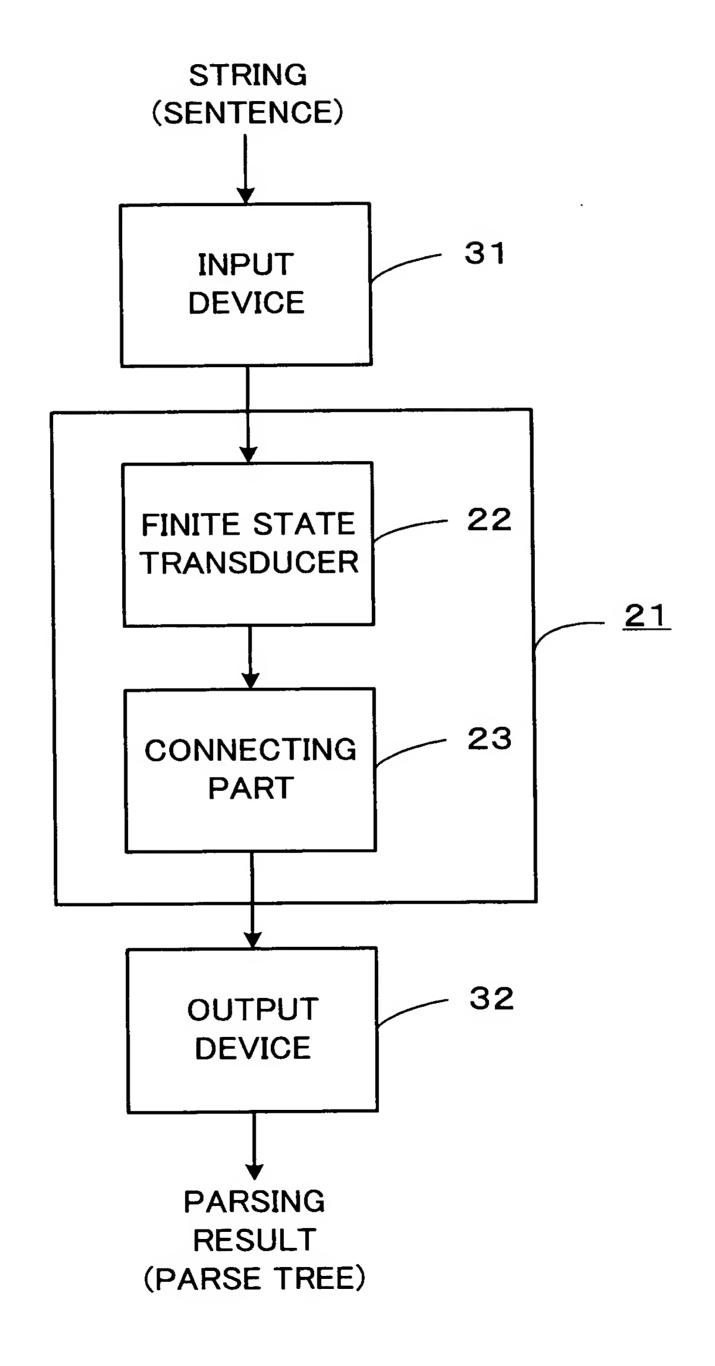
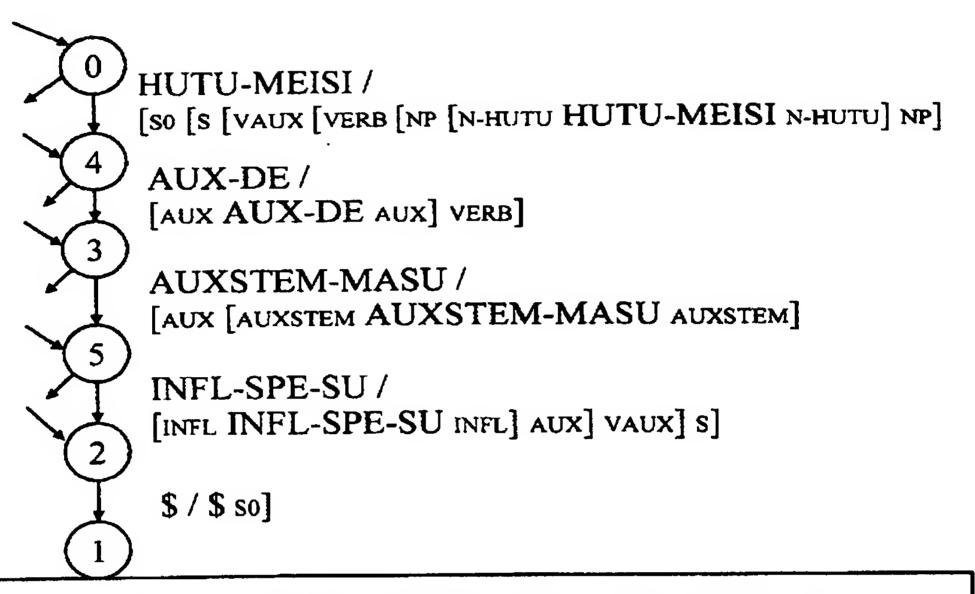


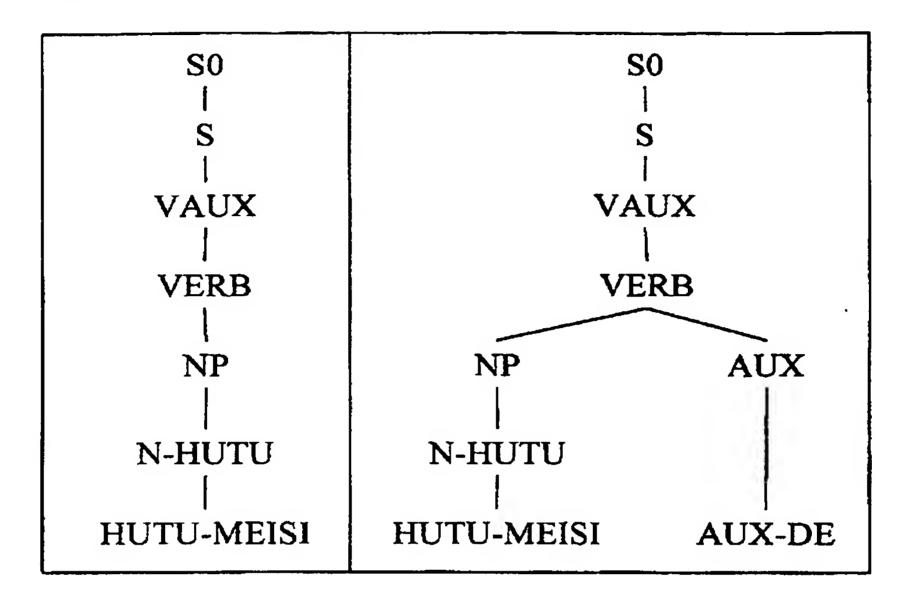
Fig.11



Input sentence: KANKOUKYOKU(HUTU-MEISI) DE(AUX-DE) GOZAIMA(AUXSTEM-MASU) SU(INFL-SPE-SU).(\$)

STATE	INPUT	OUTPUT (PARSE TREE)
0		
4	HUTU- MEISI	[SO [S [VAUX [VERB [NP [N-HUTU HUTU-MEISI N-HUTU] NP]
3	AUX-DE	[SO [S [VAUX [VERB [NP [N-HUTU HUTU-MEISI N-HUTU] NP] AUX AUX-DE AUX] VERB]
	•••	• • •
1	\$	[SO [S [VAUX [VERB [NP [N-HUTU HUTU-MEISI N-HUTU] NP] [AUX AUX-DE AUX] VERB] [AUX [AUXSTEM AUXSTEM-MASU AUXSTEM] [INFL INFL-SPE-SU INFL] AUX] VAUX] S] \$ SO]

Fig.12



[VP VB [NP NN NP] VP] SQ] \$ S0] Input sentence: Does(VBZ) that(DT) flight(NN) OUTPUT (PARSE TREE) [SO [SQ VBZ [NP DT NN NP] [S0 [SQ VBZ [NP DT NN NP]]serve(VB) dinner(NN)?(\$) [So [SQ VBZ [NP DT [S0 [SQ **VBZ** INPUT Z VBZ DT **↔** STATE 0 4 3 5 sqNN/ [NP NN NP] se VBZ/ [so [so VBZ NN/ NN NN DT/ [NP DT VB/ [vp VB \$/ \$ so]

Fig. 13

SQ 80VBZ Fig. 14

SO

 $S_0$ 

N

DT

NP

VBZ

88.7 N=4 83.9 88.6 **WORKING EXAMPLE 3** N=3 83.8 87.5 N=2 82.4 85.5 <u>R</u> **WORKING EXAMPLE 2** 80.4 74.5 0 N N 62.9 COMPARATIVE EXAMPLE 2 (PRIORITY NOT USED) 100 90 80 9 10 70 50 30 20 40 Fig. 15 ACCURACY RATE (%)